Critical Thinking → CONCEPT FILE

Bacteria

Background

Bacteria

- are simple cells without mitochondria, endoplasmic reticulum, or a nucleus
- are protected by a capsule on the outside of the cell

Some bacteria

- are decomposers
- are pathogens
  - strep throat
  - pneumonia
  - tuberculosis
- are aerobic
- are anaerobic

Vocabulary

- ❒ **aerobic**—Requires oxygen to live.
- ❒ **anaerobic**—Lives in the absence of oxygen.
- ❒ **bacillus** (plural bacilli)—A rod-shaped bacterium.
- ❒ **coccus** (plural cocci)—A round-shaped bacterium.
- ❒ **decomposer**—Feeds on dead material.
- ❒ **endoplasmic reticulum**—A connecting network in some cells.
- ❒ **flagellum** (plural flagella)—A whiplike structure used during movement and made of fibers of protein.
- ❒ **mitochondria**—Centers of energy release in some cells.
- ❒ **nucleus**—The control center of some cells.
- ❒ **pathogens**—Cause diseases.
- ❒ **spirillum** (plural spirilla)—A spiral-shaped bacterium.

Methods of Movement

Bacteria move in three ways:

- by crawling
- by gliding
- by using flagella

Types of Bacteria

Bacteria are classified by their shapes:

- round—called cocci
- spiral—called spirilla
- rods—called bacilli

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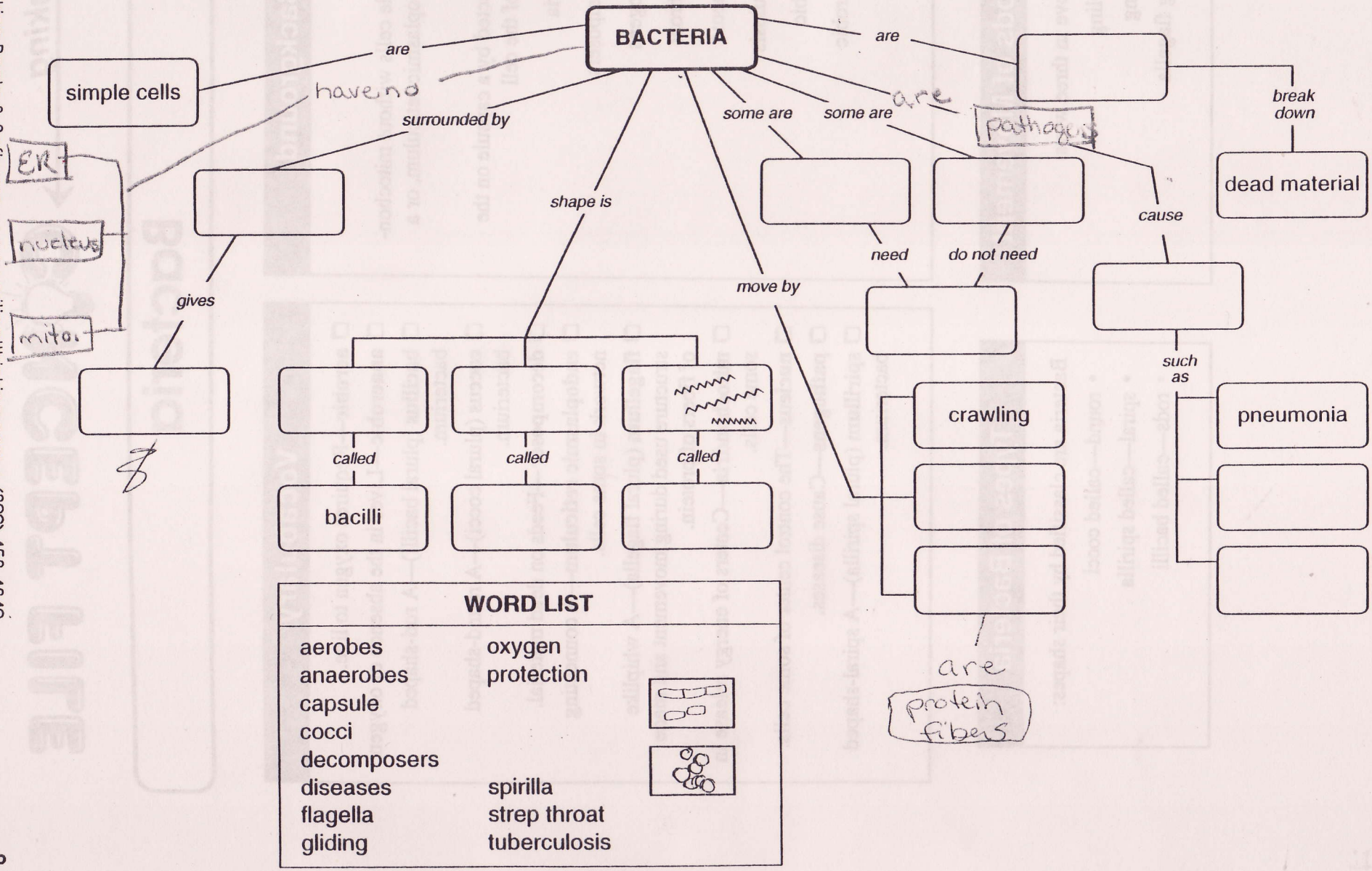
Concept Map: Bacteria

Name _____

Date _____ Period ____

Directions: Select words from the word list to fill in the blank map items. Use each word only once, and use all the words on the list. The word list box also contains two diagrams for you to copy into the correct boxes on the map.



WORD LIST

aerobes	oxygen
anaerobes	protection
capsule	
cocci	
decomposers	
diseases	spirilla
flagella	strep throat
gliding	tuberculosis

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